

Title (en)
COMPUTATION DEVICE AND PARALLAX CALCULATION METHOD

Title (de)
BERECHNUNGSVORRICHTUNG UND PARALLAXENBERECHNUNGSVERFAHREN

Title (fr)
DISPOSITIF DE CALCUL ET PROCÉDÉ DE CALCUL DE PARALLAXE

Publication
EP 3933341 A1 20220105 (EN)

Application
EP 20762912 A 20200205

Priority

- JP 2019036151 A 20190228
- JP 2020004342 W 20200205

Abstract (en)

An arithmetic device includes a storage unit that stores a coarse distance image indicating a parallax in units of first blocks, a first parallax search unit that uses a standard image that is an image captured by a first camera and a reference image that is an image captured by a second camera to calculate, in units of second blocks having a size equal to or smaller than that of the first block, a parallax in the standard image based on a parallax candidate that is a candidate for a parallax for each of the second blocks, and generate a detailed distance image that is a distance image in detail, and a candidate calculation unit that calculates the parallax candidate based on a parallax of a parent block that is a region having a size of the first block including the second block for which the first parallax search unit calculates a parallax, a parallax of an adjacent block that is a region having the size of the first block adjacent to the parent block, and a search condition.

IPC 8 full level
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CPC (source: EP)
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